BIOREMEDEDIATION.

GARY NAUGHTON
Certified Forester
1400 Overlook
Manhattan, Kansas, 66503-2427

Telephone 785-587-0354
Fax 785-587-8445

MUST CONTACT TO VERIFY A DATE.
ASAP

January 30,1998

Ann Feyerharm
Rod Meredith
Riley County Public Works Dept
Manhattan, Kansas

Dear Ann and Rod:

Tree planting time is rapidly approaching. There are four specific jobs that need to be done this spring:
1.) Cut and grade 5,000 cottonwood cuttings (8"-9") for the new nursery;
2.) Dig, grade and transport wild seedlings from Tuttle State Park to the planting site;
3.) Dig, grade and transport the nursery plants to the planting site;
4.) Plant the 13.5 acre tract on the field East of RCTS (approx 6,200 trees);
5.) Set a new nursery plot as arranged.

As usual, we are faced with time and labor constraints so it is to our advantage to begin this operation as soon as possible. One of the ways to do this is to divide the work into parts (as above) and prioritize them -- the sequence in this list is my suggested priority of the work.

I have been to the sites and have found that the digging of the stock can best be done by hand labor with a sharpshooter spade. For planning purposes, I estimate that we will need:

15 man-days for job 1;
25 man-days for job 2;
5 man-days for job 3;
10 man-days for job 4;
10 man-days for job 5.

Total estimated labor = 65 man-days

Job 1 should commence **immediately** so that the cuttings can be made in the proper season and condition for best performance. These need to be wrapped and stored in the ground (moist) or in cold storage. I will try to find the wrapping material from a local nursery.

Job 2 is the most difficult and time-consuming in terms of both labor and logistics. We will need to have a pile (15 tons) of compost dumped on the South end of the planting site, between the two planting blocks, as a place to store the seedlings once they are dug. I envision a load in a pickup truck being transported to the storage area at the end of each day of digging. This will help keep the trees fresh and will ensure that they are close at hand when the planting job begins. To protect the seedlings, as they are dug, the pickup should have about one-third of a load of compost in it each morning at the start of work so that, as each bundle of 10 trees is dug, they can be placed in the truck and **immediately** covered with compost to protect them. The ideal crew for this job is *3 people*, one of which has a pickup truck which can be used for the duration.

Job 3 will require five tons of compost immediately South of the nursery, so that these trees can be placed in compost storage immediately as they are dug. They can be moved to the planting site handily at a later date, near to planting time. One person can handle this job.

Job 4 will require the biggest tractor the County has (Ford No. 404?) along with the big tree planter from the KSU Forestry Dept at 2610 Claflin Road (see Bill Loucks). The crew should be at least *3 people* (tractor operator, planter operator, and a supply man to keep the machine loaded with seedlings). This job should begin as soon **after March 15** as conditions will allow.

Job 5 will require a crew of 9 or 10 people for one day; we should wait until after Spring Break to do this, and I am estimating the best date as April 4th, weather permitting.

Personnel:

I suggest that the county should employ Earl Slagle, 3221 Stagg Hill Road, as the field supervisor for Jobs 2,3,4, and 5. He has good experience in this work and will be available as needed. I will find a way to get the new cuttings (Job 1) done and will be available for overall coordination with your office.

We will need a county employee to operate the tractor for Job 4, and county personnel to transport and pile the compost in the designated areas.

Day labor will be difficult to find. Except for Job 5, which can be negotiated with Dr. Keith Lynch and the KSU Forestry Club (as last year), I have no clear idea of how we should proceed. We used Mike Pratt (Pratt Trailer Court) for pulling weeds in the nursery last summer, and I used him one day for helping me stake out the planting site. I believe that he could handle the digging and grading part of Job 3 without difficulty, and may be available to work on other jobs as well.

This is probably not a comprehensive analysis of what we have to do because other things will crop up as we go along. The way to approach this is to do those things that we can as quickly as possible to avoid losing the "window" of time that we have available.

Very truly yours,

Gary Naughton
Certified Forester

Spring 1999

Tau Beta Pi Vice-President Responsibilities

Vice-President: Brenda Donahey

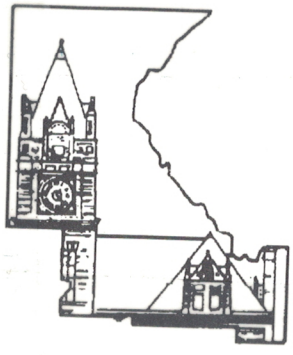
Priority #1: SERVICE PROJECT

This spring Tau Beta Pi planted about 6,000 trees at the old Riley County landfill as part of the ongoing bioremediation project. The following will outline specific instructions as to plan for this project.

- Find a Saturday in early March to have the service project on. Plan on working from 8:00am to around 1:00pm. (This estimate assumes that around 25 people are participating.)
- Contact Gary Naughton at the Riley County Public Works about your organization's interest (587-0354 or ggn@ksu.edu). He will give you dates that work for him and the county.
- Set a rain date just in case.
- Ask Riley County Public Works to come and speak briefly at the smoker about the project.
- Riley County has paid for pizza in the past to be served for lunch. Water and other refreshments will need to be provided. Confirm with Gary about lunch being provided.
- Prepare a map showing directions to the landfill to give to all participants. For more information contact Gary for exact location.
- Have the editor contact local newspapers for coverage.
- Have initiates meet in the Durland Atrium 30 minutes before the group needs to be at the landfill.
- Advise participants to dress accordingly; you are going to get dirty.
- Fields are very sandy, so project will go on even with a little rain.

Priority #2: HELP OUT OTHER OFFICERS

If you have completed the service project, devote your time to helping the other officers. It is your responsibility to contribute your time and effort to make their jobs a little less hectic. Volunteer to do any project reports that need to be done. Help out the President with club business.



GREG LUND
Park Foreman

Riley County Public Works
2711 Anderson
Manhattan, Kansas 66502

Office ~~913-~~539-2981
~~Shop 913-539-3202~~

location: Tuttle Puddle
need to specify time available.
Objective: to plant a cottonwood grove next to the landfill to help with the refining of run off.
How we fit in: Along the beach of Tuttle puddle there are Thousands of cotton wood saplings that need to be relocated. Will be supplied w/ everything - just need to show up.
Good service to the community!

News

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Wednesday, March 8, 2000

TAU BETA PI PLANTING TREES AS SERVICE PROJECT

MANHATTAN — Members of Kansas State University's Tau Beta Pi engineering honor society will be helping to improve the Manhattan environment by planting trees at the old county landfill site south of Manhattan Saturday, March 11, beginning at 8:30 a.m.

The site is part of a Riley County bioremediation project aimed at improving water quality near the site, according to Shelli Starrett, faculty adviser and assistant professor of electrical and computer engineering.

Starrett said about 35 members will participate in the planting of 5,000 to 6,000 trees. The K-State chapter of Tau Beta Pi has planted trees at the site for the past two years, and about 12,000 have been planted so far. Riley County employees will be helping plant the trees, primarily cottonwoods.

Tau Beta Pi as a national engineering honor society which recognizes students in the engineering disciplines for academic excellence as well as distinguished character.

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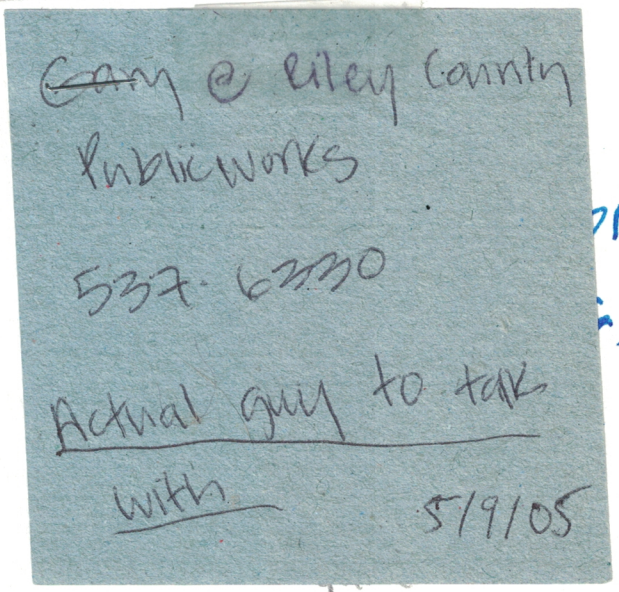
Prepared by Cheryl May. For more information contact faculty adviser Shelli Starrett at 785-532-4689.



Helps w/ tree planting

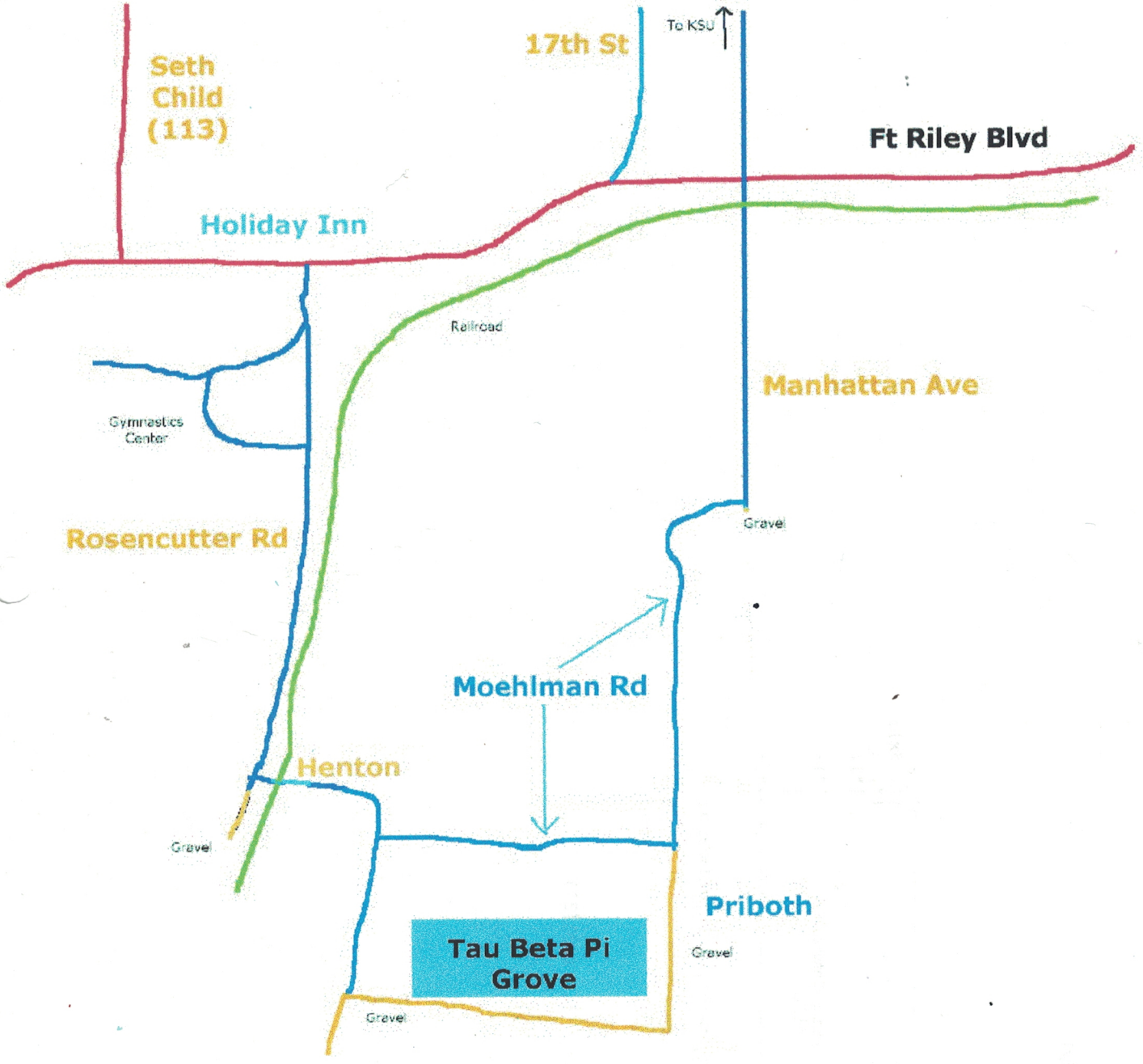
KANSAS STATE UNIVERSITY

* RC Public Works provides food (usually lunch - pizza + pop) + all supplies needed.

* Only thing TBTT may want is to tell members to bring gloves (if wanted)

* May want to put in Collegian (not done prior, but Dr. Hayden thought might be good idea)

* Call Gang early in semester to set date (+possible rain date). Contact couple weeks before to make sure everything is ready to go.


Seth
Child
(113)
17th St
To KSU
Ft Riley Blvd
Holiday Inn
Railroad
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Gymnastics
Center
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